

List of All Chemicals

P **Salvia miltiorrhiza (Lamiaceae)**

Common name(s)

Dan-Shen; Tan-Shen; Red Sage

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Part	Low PPM	High PPM	StdDev	*Reference
SODIUM	Root	--	70.0	-0.48	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Activities (1)					
Hypertensive		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
ISOTANSHINONE-I	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
SALVIOL	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Activities (3)					
Antibacterial					
Cytostatic ID50=10ug/ml	Darias, V., Bravo, L., Rabanal, R., Sanchez-Mateo, C.C., and Martin-Herrera, D.A. 1988. Cytostatic and Antibacterial Activity of Some Compounds Isolated from Several Lamiaceae Species from the Canary Islands. <i>Planta Medica</i> 56(1): 70, 1990.				
Pesticide					
ISOCRYPTOTANSHINONE	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
SALVIANOLIC-ACID-A	Root	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Activities (6)					
ATPase-Inhibitor		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Aldose-Reductase-Inhibitor 0.01 uM rat	Du, G. H., Qiu, Y., Tian, Y. E., Zhang, J. T. 1995. Prevention of Galactose-Induced Cataractogenesis in Rats by Salvanolic Acid A. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 561-566.				
Anticoagulant		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antioxidant		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
Antisecretory					
Antiulcer 25 mg/kg ip	Murakami, S., et al. 1989. Effect of Salvanolic Acid A, a Depside from Roots of <i>Salvia miltiorrhiza</i> , on Gastric H ⁺ ,K ⁺ -ATPase. <i>Planta Medica</i> , 56(4): 360, 1990.				
IRON	Root	--	230.0	-0.11	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Activities (6)					
Antiakathisic		Martindale's 29th			
Antianemic		Martindale's 29th			
Anticancer					
Anticheilitic		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antimenorrhagic 100 mg/day/wmn/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Prooxidant					
POTASSIUM	Root	--	11700.0	-0.3	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (14)

Angiotensin-Receptor-Blocker				
Antiarrhythmic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antidepressant	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antifatigue	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antihypertensive				
Antispasmodic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antistroke				
Anxiolytic				
Beta-Blocker				
Cardioprotective 3,000-5,000 mg				
Cardiotoxic 18,000 mg/man/day				
Diuretic				
Hypotensive				
Vasodilator				

HYDROXYTANSHINONE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
-------------------	------	----	----	---------------------------------------------------------

ZINC	Root	--	12.0	-0.53	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
------	------	----	------	-------	---------------------------------------------------------------------------------------------------------------------------------------

Activities (77)

ACE-Inhibitor				
Analgesic				
AntiBPH 25-60 mg/day	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
AntiCrohn's				
AntiHIV				
Antiacne 135 mg/day	Martindale's 29th			
Antiacrodermatitic 8-34 mg/day/orl/chd				
Antialcoholic				
Antiallopecic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antialzheimeran 50 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antiangiogenic				
Antianorexic	Martindale's 29th			
Antiarthritic 50 mg/3x/day/orl/man				
Anticanker 100 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Anticataract 30 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Anticoeliac	Martindale's 28th			
Anticold 50 mg	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Anticolitic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Anticorony 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95			
Antidandruff	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antidementia				
Antidiabetic 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95			
Antidote (Cadmium)	Let's Live, May 1989.			
Antidisgeuzic				
Antieczemic 150 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antiencephalopathic	Martindale's 29th			
Antiepileptic 100 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antifibrotic 30 mg				
Antifuruncular 45 mg/3x/day/man	Martindale's 28th			
Antihangover 15 mg				
Antiherpetic? 25-60 mg/day				
Antiimpotence	Martindale's 29th			
Antiinfective 50 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antiinfertility 60 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antiinsomniac	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antileptic	Martindale's 29th			
Antileukonychic				
Antilymphomeric				
Antimaculitic				
Antimetastatic				
Antineuropathic				
Antinystagmalopic				

Antiobesity 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antiosteoporotic	
Antiperiodontitic	
Antiplaque	Martindale's 29th
Antipro lactin	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiprostatic 50 mg/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antirheumatic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiseptic 50 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antispare-Tire 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antistomatitic 50 mg/man/3x/day	Martindale's 28th
Antisyndrome-X 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antitinitic 60-120 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antitriglyceride 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antiulcer 50 mg/3x/day/man	Martindale's 28th
Antiulcer 88 mg/rat/day/15 days	
Antiviral?	Martindale's 29th
Astringent	Martindale's 28th
Collagenic	
Copper-Antagonist	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Deodorant	Martindale's 29th
Detoxicant (Alcohol)	
Ergogenic	
Hypotensive 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Immunomodulator	
Immunostimulant	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Immunosuppressant 300 mg/day/6 wks/orl/man	Martindale's 29th
Insulinogenic 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Leptogenic 30-60 mg/man/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Mucogenic	Li, K.M. Effect of zinc sulphate on acetic acid-induced gastric ulceration in rats. <i>J. Pharm. Pharmacol.</i> 42: 657-659, 1990.
NF-kB-Inhibitor	
Pesticide	
Spermigenic 60 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Testosteronogenic 60 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Trichomonicide	Martindale's 29th
Vulnerary	Martindale's 28th

MILTRONE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
DANSHENSPIROKETALLACTONE	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
TANSHINONIC-ACID	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
METHYL-TANSHINONE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
CRYPTOTANSHINONE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)

Activities (11)

Aldose-Reductase-Inhibitor IC50=10 uM rat	Kasimu, R., Basnet, P., Tezuka, Y., Kadota, S., Namba, T. 1997. Danshenols A and B, New Aldose Reductase Inhibitors from the Root of <i>Salvia miltiorrhiza</i> BUNGE. <i>Chem Pharm Bull.</i> 45(3): 564-566.
Anti acne	
Antiaggregant IC50=5-100 ug/ml	
Anti anginal	Shimomura,* K., Kitazawa, T., Okamura, N., and Yagi, A. Tanshinone Production In Adventitious Roots And Regenerates Of <i>Salvia miltorrhiza</i> . <i>Journal of Natural Products</i> , 54(6): 1583-1587, 1991.
Antibacterial	
Antiburn	
Anticarbuncular	
Anti ischemic	Shimomura,* K., Kitazawa, T., Okamura, N., and Yagi, A. Tanshinone Production In Adventitious Roots And Regenerates Of <i>Salvia miltorrhiza</i> . <i>Journal of Natural Products</i> , 54(6): 1583-1587, 1991.
Antiosteomyelitic	
Antitonsilitic	
Pesticide	

TANSHINONE-IIIB	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
-----------------	-------	----	----	----------------------------------------------------------

METHYL-TANSHINONATE

Root -- --

Chemical Constituents of Oriental Herbs (3 diff. books)

Activities (1)

Antiaggregant IC50=25-50 ug/ml Oriental Healing Arts Institute, 1987. (Changed to Int. J. Oriental Medicine).

COPPER

Root -- 8.0 -0.41 Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (12)

Antianemic

Antiarthritic

Antidiabetic 2-4 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antifatigue

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiinflammatory

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antinociceptive

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiosteoporotic

Cardioprotective

Martindale's 28th

Contraceptive

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Hypocholesterolemic

Immunomodulator

Schizophrenogenic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

TANSHINONE-II-A

Root -- --

Chemical Constituents of Oriental Herbs (3 diff. books)

Activities (10)

Aldose-Reductase-Inhibitor IC50=1.14 uM rat

Antiaggregant

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Antianginal

Anticoagulant

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Antihemolytic

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Antimyocardotic

Bacteristat

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Calcium-Antagonist 50-100 uM/l

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Calcium-Antagonist 20 uM gpg

Sodium-Blocker 50-100 umol/l

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

MANGANESE Root -- 23.0 -0.27 Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (14)

AntiPMS

Antialcoholic

Forest H. Nielsen, USDA, Grand Forks, various publications.

Antianemic

Martindale's 28th

Antiarthritic

Antidiabetic 3-5 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antidiabetic 10-30 mg/man/day

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antidiscotic

Martindale's 28th

Antidyskinetic

Antiepileptic 450 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiosteoporotic

Antiototic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antioxidant

Antisyn-drome-X 10-30 mg/man/day

Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reverse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Hypoglycemic 10-30 mg/man/day

CALCIUM

Root -- 2780.0 -0.51

Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (28)

AntiPMS 1 g/day				
Antiallergic 500 mg/day				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antianxiety				
Antiarrhythmic 500-1,500 mg				
Antiarthritic 1,000 mg/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiatherosclerotic 500 mg/day				
Anticlimacteric 1,000-1,500 mg/day				
Antidepressant				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidote (Aluminum)				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidote (Lead)				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihyperkinetic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihypertensive				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiinsomniac				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antimenopausal 1,000-1,500 mg/day				
Antiobesity				
Antiosteoporotic 500-2,000 mg/day				
Antiperiodontitic 750 mg/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antirheumatic 1,000 mg/day				
Antistress 500-1,500 mg/day				
Antitic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anxiolytic 500-1,500 mg/day				
Calcium-Channel-Blocker				
Diuretic				
Hypocholesterolemic 500 mg/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Hypotensive 1 g/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Laxative 1,000-1,200 mg				
Tranquilizer 500-1,500 mg/day				
Vasodilator				

TANSHINONE-II

Root -- -- Chemical Constituents of Oriental Herbs (3 diff. books)

MAGNESIUM

Root -- 3230.0 0.36 Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (65)

AntiCFS				
AntiLyme 400-1,000 mg				
AntiMS				
AntiPMS 400-800 mg/day/wmn/orl				
AntiPMS 400-800 mg/day/wmn orl				
AntiRaynaud's 280-350 mg/day				
Antiaggregant 400 mg/day				
Antialcoholic				
Antiangular 400 mg/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antianorectic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antianxiety 400 mg/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiarrhythmic 400 mg/day				
Antiarthritic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiasthmatic				Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiatherosclerotic 400 mg/day				
Anticephalagic				
Anticlimacteric 500-750 mg/day				
Anticonvulsant				Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.
Anticorony 400 mg/day				Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reverse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antidepressant				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidiabetic 400-800 mg/man/day				
Antidysmenorrheic 100 mg 4 x/day				Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiedometriotic 500 mg/day				
Antienterotic				
Antiepileptic 450 mg/day				

Antifatigue					
Antifibromyalgic 200-300 mg 3x/day					
Antigastric					
Antiglaucomic					
Antihyperkinetic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antihypertensive					
Antihypoglycemic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antiinflammatory 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antiinsomniac	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antilithic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antimastalgic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antimenopausal 500-750 mg/day					
Antimigraine 200 mg/day/man	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antimitral-valve-prolapse					
Antinephrolytic					
Antineurotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antosteoporotic 500-1,000 mg/day/wmn/orl					
Antiplaque 500-1,000 mg/day					
Antiretinopathic 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95				
Antispasmodic					
Antispasmophilic 500 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antistress 500-750 mg/day					
Antistroke 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95				
Antisyndrome-X 400 mg/man/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95				
Anxiolytic 500-750 mg/day					
CNS-Depressant	Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.				
Calcium-Antagonist					
Cardioprotective					
Diuretic					
Hypocholesterolemic 400 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Hypotensive 260-500 mg/day					
Immunomodulator					
Insulinogenic 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95				
Laxative 300-500 mg/day					
Litholytic					
Myorelaxant 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Neurotransmitter					
Tranquilizer 500-750 mg/day					
Uterorelaxant 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Vasodilator					

ARSENIC Root -- 0.34 -0.19 Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities (2)

Anorexic Forest H. Nielsen, USDA, Grand Forks, various publications.
Pesticide

TANSHINONE-I Root -- -- Chemical Constituents of Oriental Herbs (3 diff. books)

Activities (4)

Aldose-Reductase-Inhibitor IC50=4.8 μ M rat
Antiischemic Shimomura,* K., Kitazawa, T., Okamura, N., and Yagi, A. Tanshinone Production In Adventitious Roots And Regenerates Of Salvia miltiorrhiza. Journal of Natural Products, 54(6): 1583-1587, 1991.
Bacteristat Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Pesticide

ISOTANSHINONE-III Plant -- -- J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

TANSHINOLACTONE Plant -- -- J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

ISOTANSHINONE-II Root -- -- Chemical Constituents of Oriental Herbs (3 diff. books)

